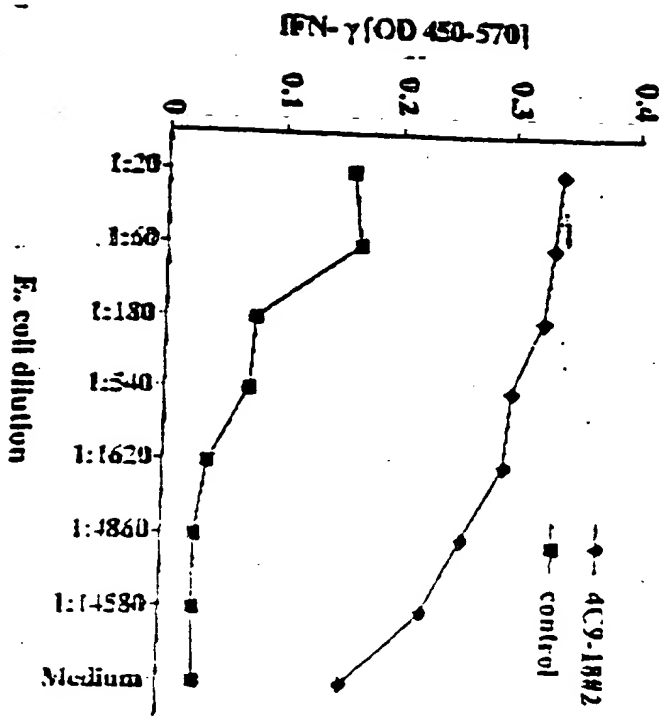

IFN-γ[OD 450-570]
0
0.1
0.2
0.3
0.4
E. coli dilution
1:20
1:60
1:180
1:540
1:1620
1:4860
1:14580
Medium
4C9-18#2
control

Fig. 1

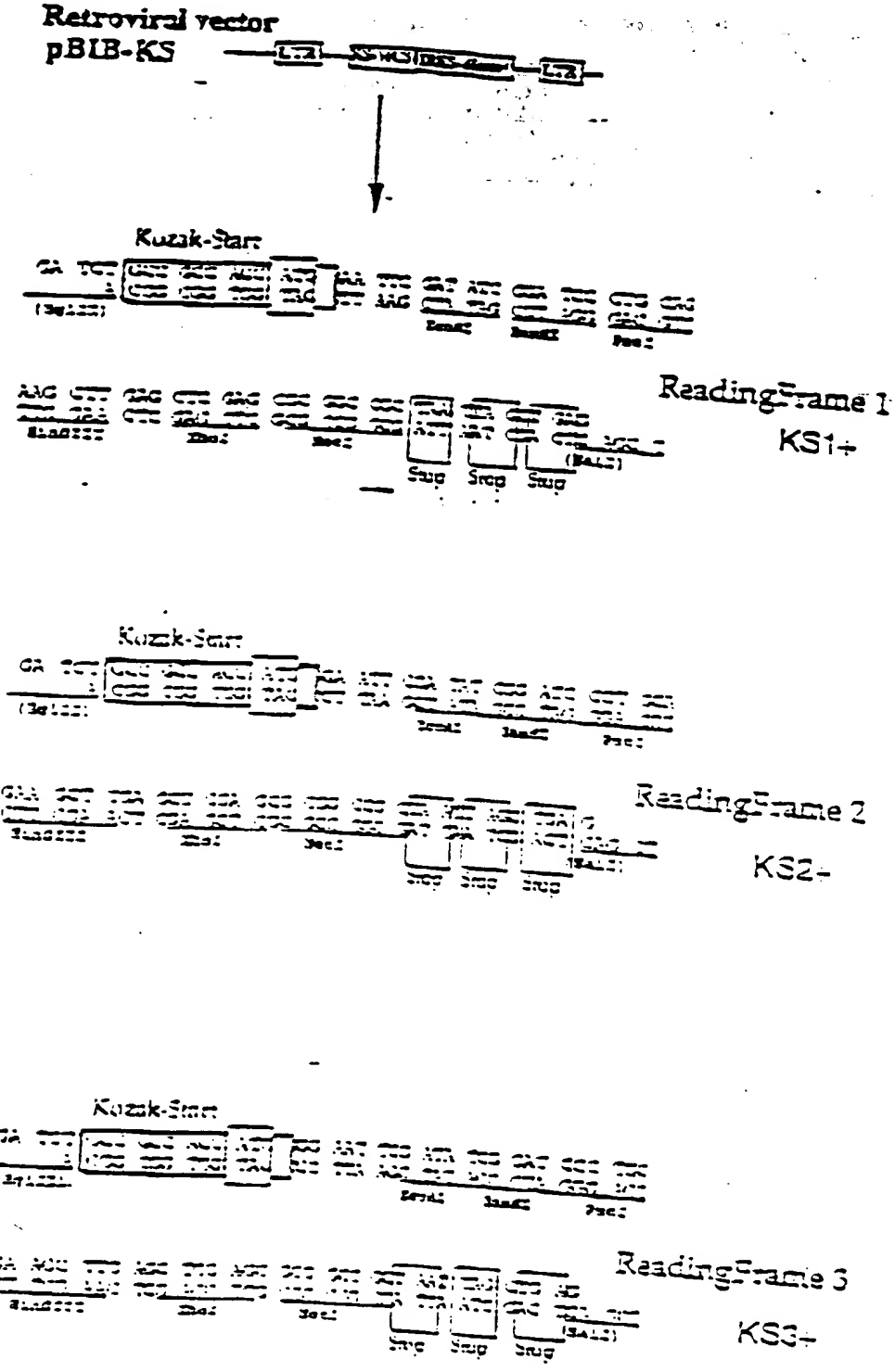

Retroviral vector
pBIB-KS
Kozak-Start
Reading Frame 1
KS1+
Kozak-Start
Reading Frame 2
KS2-
Kozak-Start
Reading Frame 3
KS3+

Fig. 2

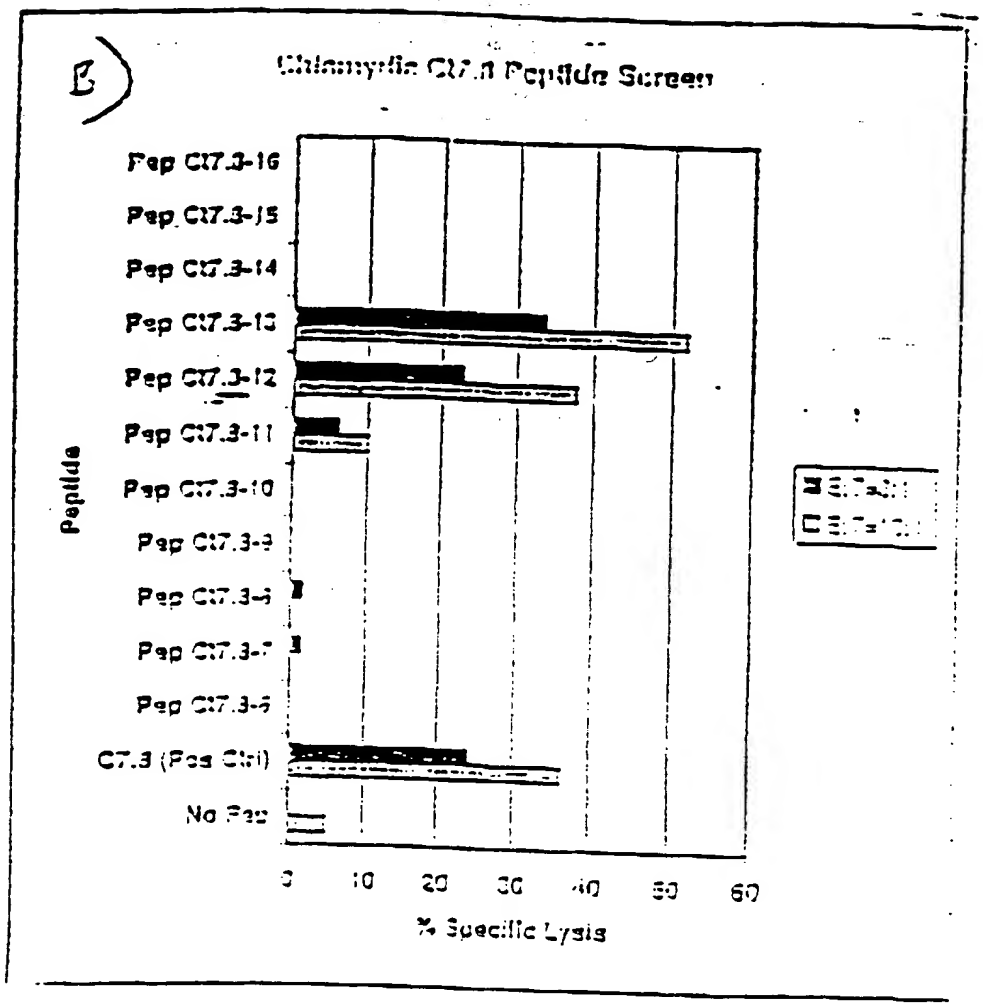

B)
Chimeric C17.3 Peptide Screen
Pep C17.3-16
Pep C17.3-15
Pep C17.3-14
Pep C17.3-13
Pep C17.3-12
Pep C17.3-11
Pep C17.3-10
Pep C17.3-9
Pep C17.3-8
Pep C17.3-7
Pep C17.3-6
C17.3 (Pos Ctrl)
No Pep
Peptide
0
10
20
30
40
50
60
% Specific Lysis

Fig. 3

Antibody Production in Chlamydia Antigen
Immunized C57BL/6 Mice
Serum IgG (O.D.)
Antibody
100
333
1000
3333
10000
33333
100000
Medium
Mouse A/IgG1
Mouse B/IgG1
Mouse C/IgG1
Mouse A/IgG2a
Mouse B/IgG2a
Mouse C/IgG2a

Fig. 4

Proliferation (XTT) assay for splenocyle proliferation to recombinant SWIB in vitro

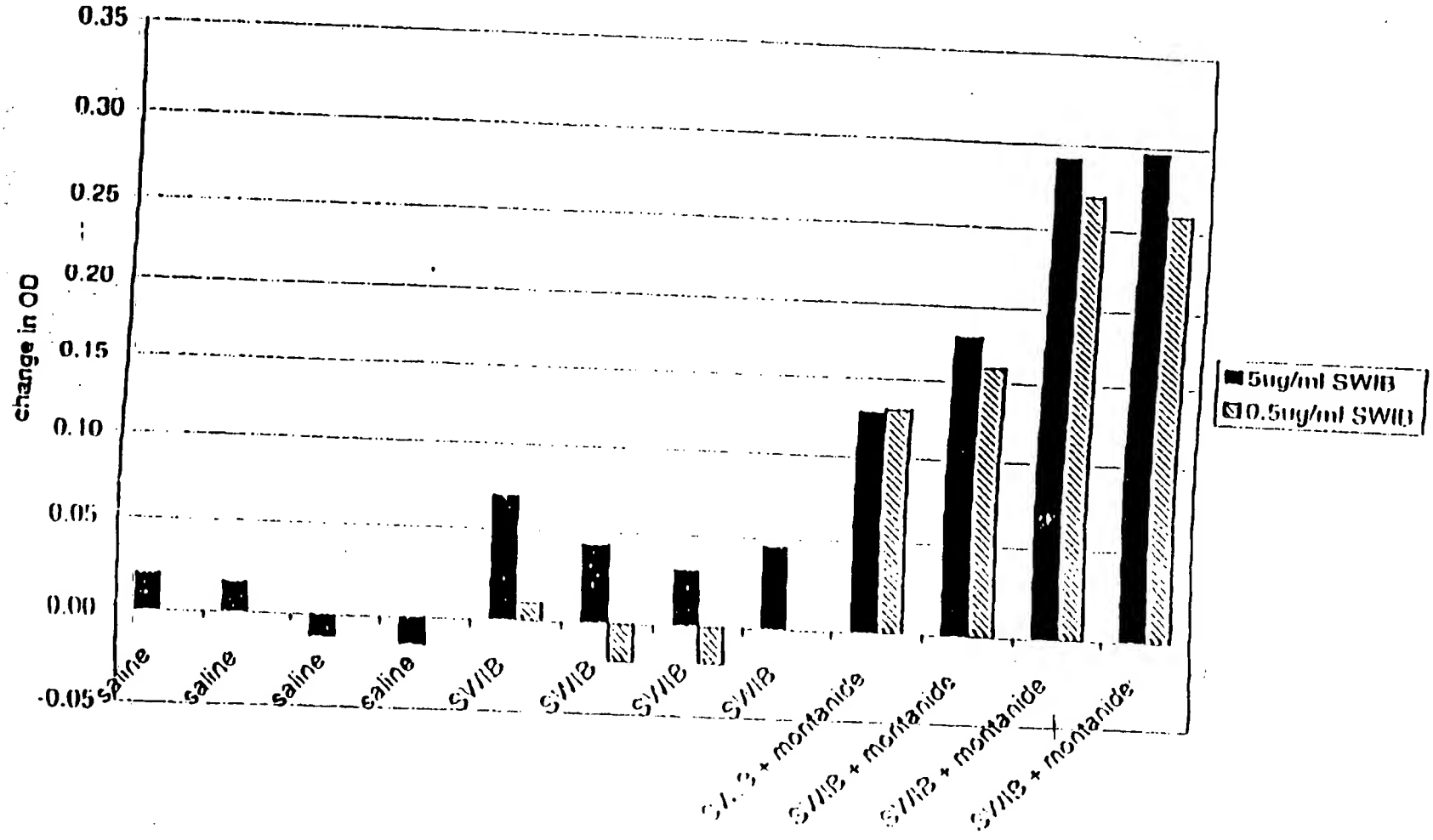


Fig. 5

PRIMER SEQUENCES- CP SWIB AND CP S13

CP SWIB Nde (5' primer)
5' GATATACATATGCATCACCATCACCATCACATGAGTCAAAAAAATAAAAACTCT

CP SWIB EcoRI (3' primer)
5' CTCGAGGAATTCTTATTTTACAATATGTTTGGA

CP S13 Nde (5' primer)
5' GATATACATATGCATCACCATCACCATCACATGGCACGCATCATTGGAATGAT

CP S13 EcoRI (3' primer)
5' CTCGAGGAATTCTTATTTCTTCTTACCTGC

Fig. 6

T cell line TCL-8 EBDC responds to *E. coli* expressing ribosomal S13 from *C. trachomatis* and from *C. pneumoniae*

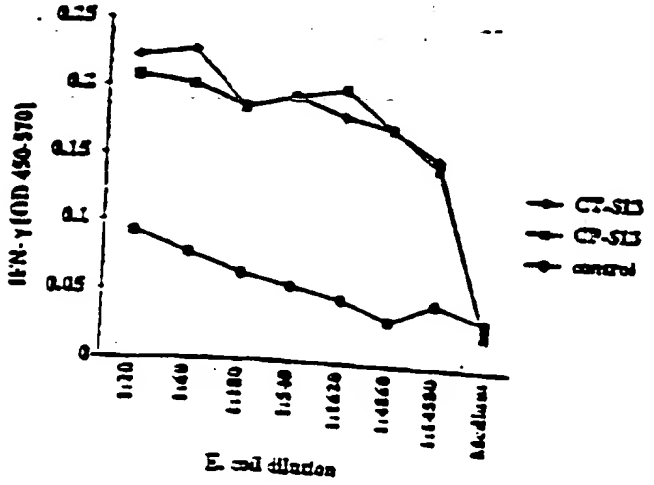


Fig. 7A

T cell line TCL-8 EBDC responds to *E. coli* expressing SWIB from *C. trachomatis* but not SWIB from *C. pneumoniae*

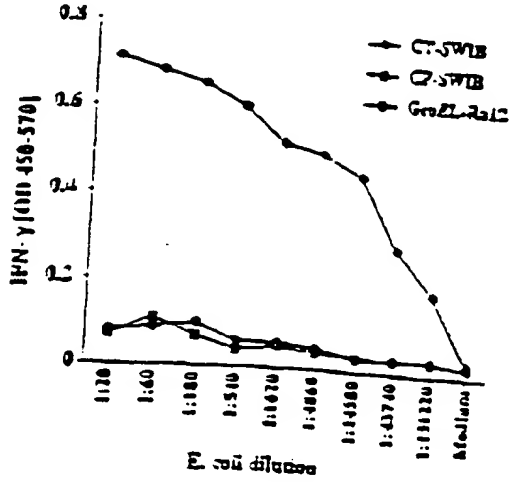
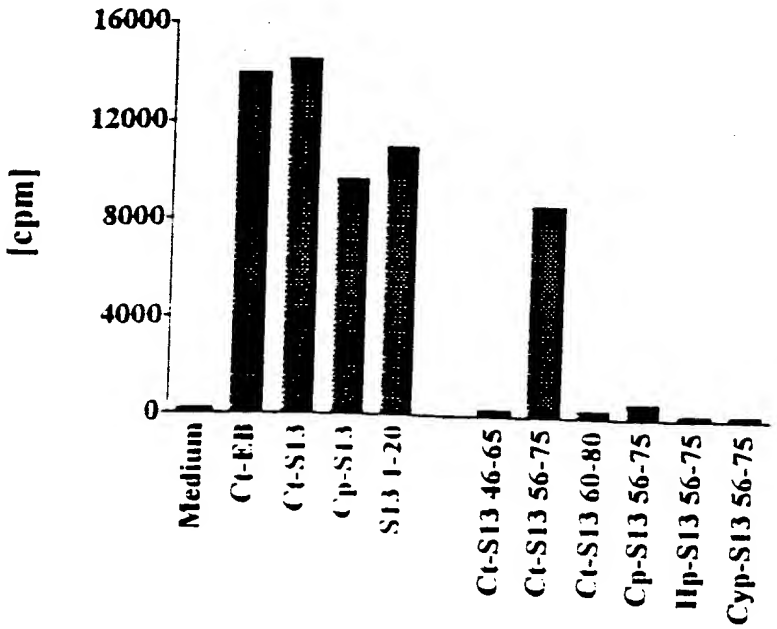


Fig. 7B

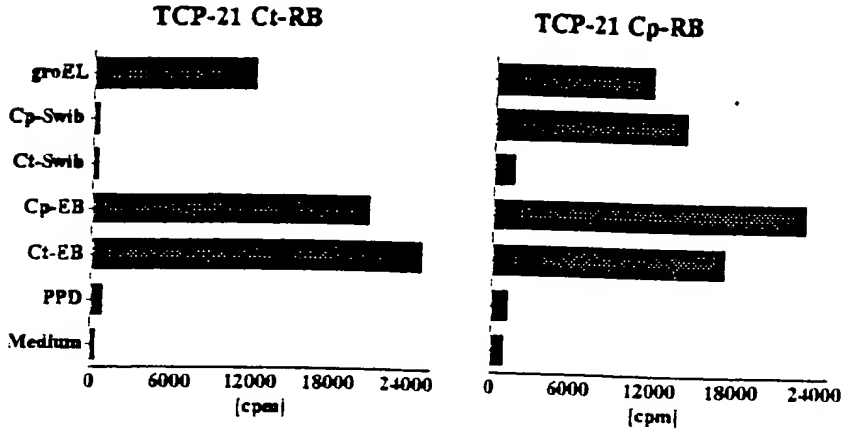
Figure 8: Identification of T cell epitopes in chlamydial ribosomal S13 protein with TCL8 EB/DC



Proliferative responses were determined by stimulating 2.5×10^4 T cells in the presence of 1×10^4 monocyte-derived dendritic cells and Ct-EB (1 µg/ml), Ct-, Cp S13 (2 µg/ml) or the respective peptide (0.2 µg/ml). Assay was harvested after 4 days with a ^{3}H-thymidine pulse for the last 18h.

Fig. 8

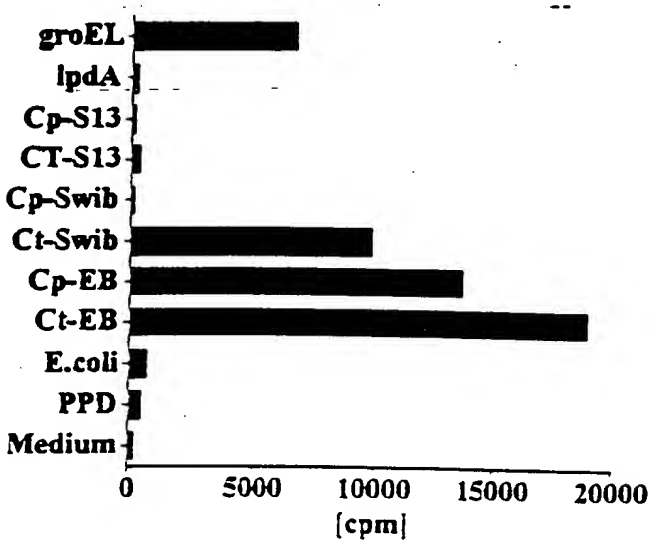
Figure 9: CP-21 T cells generated against C. pneumoniae-infected DC responded to recombinant Cp-Swib but not Ct-Swib



T cell lines were generated against monocyte-derived dendritic cells infected for 72h with *C. trachomatis* LGV II (Ct-RB) or *C. pneumoniae* (Cp-RB) respectively.
Proliferative responses were determined by stimulating 2.5×10^4 T cells in the presence of 1×10^4 monocyte-derived dendritic cells and the respective antigen Ct-groEL 2µg/ml, Cp-Swib 2µg/ml, Ct-Swib 2µg/ml Cp-EB 1µg/ml and Ct-EB 1µg/ml. Assay was harvested after 4 days with a ^{3}H-thymidine pulse for the last 18h.

Fig. 9

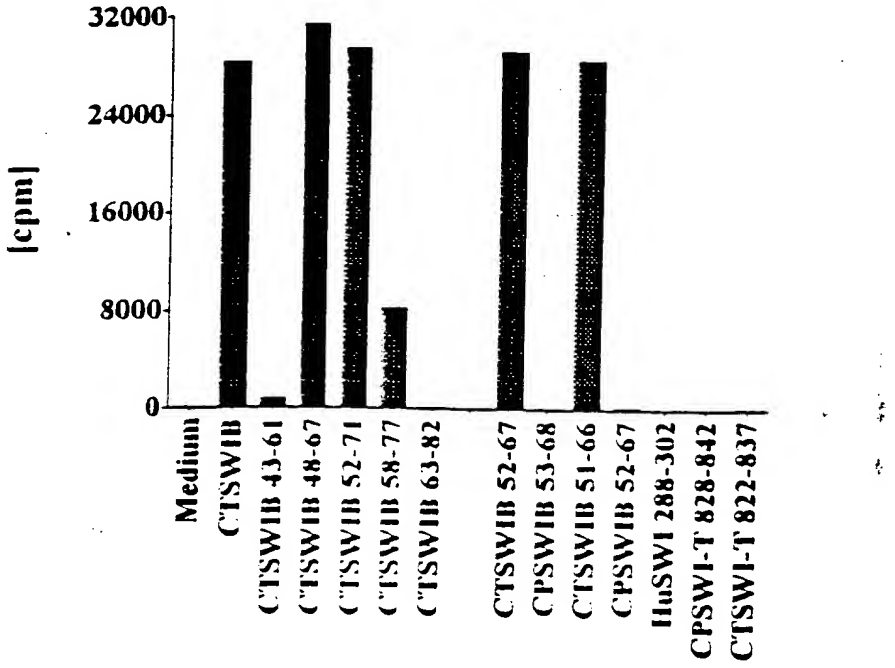
Figure 10: A primary T cell line (TCT-10 EB) from an asymptomatic donor has a *C. trachomatis*-specific Swib response



T cell line TCT-10 EB was generated by stimulating PBMC with 1 µg/ml killed C. trachomatis LGV2 elementary body (EB). Proliferative responses were determined by stimulating 2.5 x 10^4 T cells in the presence of 1 x 10^4 monocyte-derived dendritic cells and the respective antigen. Assay was harvested after 4 days with a ^{3}H-thymidine pulse for the last 18h.

Fig. 10

Figure 11: Identification of T cell epitope in C. trachomatis Swib with TCL-10 EB



Proliferative responses were determined by stimulating 2.5 x 10^4 T cells in the presence of 1 x 10^4 monocyte-derived dendritic cells and Ct-Swib 2 µg/ml or the respective peptide 0.2 µg/ml. Assay was harvested after 4 days with a ^{3}H-thymidine pulse for the last 18h.

Fig. 11